



NOTES

- ALL THE EQUIPMENT AND INSTRUMENT TAG NUMBERS ON THIS DRAWING ARE PREFIXED BY AREA CODE (16) AND PLANT AREA CODE (01) UNLESS SPECIFIED OTHERWISE.
- A DISCREPANCY ALARM SHALL BE PROVIDED AFTER A SPECIFIED TIME DELAY IF THE VALVE FAILS TO MOVE TO THE FAIL-SAFE POSITION.
- THE SET POINT VALUES FOR LEVELS ARE REFERRED TO THE LOWEST VESSEL TANGENT LINE.
- DISTANCE FROM COMPRESSOR K-3610 TO FCV 3610-02A/B TO BE MINIMIZED.
- SUCTION DRUM IS MINIMUM DISTANCE FROM COMPRESSOR.
- A KEY OPERATING LOCKING SYSTEM IS PROVIDED FOR A MULTIPLE PSV ARRANGEMENT. THE SYSTEM ARE IN COMPLIANCE WITH DEP. 80.46.30.11-GE.
- PROVISION FOR HYDRATE INHIBITOR (METHANOL) INJECTION.
- SDV-3610-08 IS AUTO RESET TYPE.
- SOFT INTERLOCK IS PROVIDED TO AVOID VALVE SELECTION WHEN COMPRESSOR IS RUNNING.
- FLARE BRANCHES TO BE CONNECTED TO THE TOP ON THE MAIN HEADER AND/OR SUBHEADER AT 45°.
- ALL THE DRAIN BRANCH LINES SHALL ENTER THE CLOSED DRAIN HEADER AND SUB-HEADER ABOVE THE CENTERLINE.
- FOR CHEMICAL INJECTION NOZZLE DETAILS REFER TO P&ID 30.99.08.1601 SHT.3/16
- NO POCKETS UPSTREAM OF NON-RETURN VALVE.
- CV OF THE VALVE IS SAFETY CRITICAL.
- A PERMANENT SIGN IS ATTACHED TO THE VALVE BODY OR ADJACENT PIPING WARNING AGAINST REPLACING THE CONTROL VALVE WITH LARGER CAPACITY UNLESS THE DOWNSTREAM OVERPRESSURE PROTECTION FACILITY IS CHECKED FOR THE INCREASED RELIEF CAPACITY RESULTING FROM THE CHANGE.
- ANTI-SURGE VALVES ARE LOCATED AT HIGHEST POINT.
- LINE IS SUITABLY SUPPORTED DUE TO TWO-PHASE FLOW. AIV/FIV ANALYSIS NEEDS TO BE PERFORMED FOR THIS LINE.
- DELETED.
- VALVE DISCREPANCY ALARM.
- DELETED.
- FOR DETAILS OF 'TYPE 01A' REFER P&ID NO. 30.99.08.1601 SHT.8/16
- FOR DETAILS OF 'TYPE 01A & 02A' REFER P&ID NO. 30.99.08.1601 SHT.5/16
- ALL LEVEL TRANSMITTERS AND LEVEL GAUGE EXCLUDING TRIPS SHALL HAVE THE SAME RANGEABILITY.
- A PERMANENT SIGN IS ATTACHED TO THE VALVE BODY OR ADJACENT PIPING WARNING TO SHUT AND DEPRESSURIZE THE TRAIN TO MAINTAIN THE VALVE.
- DELETED.
- 3D STRAIGHT RUN LENGTH REQUIREMENT AT THE UPSTREAM OF INLET NOZZLE.
- FOR FIRST RUN OF COMPRESSOR / COMMISSIONING THE ANTI SURGE VALVE SHALL BE REPLACED WITH EITHER PIPESPOOL WITH RO OR ASV WITH SACRIFICIAL TRIM, VENDOR TO CHECK & CONFIRM ACCORDINGLY.
- STRAIGHT RUN REQUIREMENT FOR ASV SHALL BE INCLUDED LATER BASED ON VENDOR INPUT.
- SIZING OF ANTSURGE CONTROL VALVE SHALL BE CONFIRMED BY COMPRESSOR VENDOR.
- INSTRUMENTS CONNECTED TO ANTSURGE AND PERFORMANCE CONTROL SYSTEM INCLUDING ANTSURGE CONTROL VALVE SHALL BE SUPPLIED BY COMPRESSOR VENDOR.
- UPSTREAM STRAIGHT SPOOL OF SD TO BE PROVIDED. TO BE INSTALLED IN HORIZONTAL WITH SPINDLE VERTICAL.
- ROTAMETER IS TO BE INSTALLED IN VERTICAL TO FLOW UPWARDS.
- VESSEL IS HEATED ABOVE DESIGN CONDITIONS OR EVEN RUPTURE CONDITIONS PROTECTION AGAINST FIRE EXPOSURE BY A PRESSURE RELIEVING DEVICE IS NOT SUFFICIENT. OTHER MEANS OF PROTECTION LIKE FIRE PROOFING, WATER DELUGE IS NECESSARY.
- LINE IS SUITABLY SUPPORTED DUE TO HIGH PRESSURE DROP DURING SETTLEOUT. FIV/AV ANALYSIS IS TO BE PERFORMED FOR THIS LINE.
- LINE IS ROUTED UP TO THE GRADE LEVEL NEAR TO THE LOCATION OF THE PORTABLE SKID.

HOLDS:

- CONTROL VALVE SIZE.
- UPSTREAM STRAIGHT PIPE REQUIREMENT FOR NOZZLE N1 SHALL BE CONFIRMED BY INTERNAL VENDOR.
- VESSEL DIMENSIONS TO BE CONFIRMED BY VENDOR.

DRAWING REFERENCE

TITLE	DRG. NO.
P&ID LEGEND	P16093.30.99.08.1601 SHT. 1 TO 16
P&ID CLOSED DRAIN COLLECTOR HEADER SAHIL CDS	P16093.16.01.08.1731
P&ID MP FLARE HEADER SAHIL CDS	P16093.16.39.08.1605
P&ID GLYCOL CONTACTOR INLET KO DRUM V-3610 SAHIL CDS PLANT AIR DISTRIBUTION	P16093.16.39.08.1685
P&ID NITROGEN & PLANT AIR DISTRIBUTION SAHIL CDS	P16093.16.39.08.1727
P&ID 1ST STAGE SUCTION DRUM V-3610	P16093.16.39.08.1678
P&ID 2ND STAGE COMPRESSOR K-3610 SAHIL CDS	P16093.16.39.08.1683
P&ID 2ND STAGE COOLER E-3610-02 SAHIL CDS	P16093.16.39.08.1684
P&ID GLYCOL CONTACTOR C-3610	P16093.16.39.08.1686
P&ID VAPOUR RECOVERY COMPRESSOR PACKAGE	P16093.16.39.08.1688

1	10/4/2024	KRA	ABS	SHA	ISSUED FOR CONSTRUCTION
F	7/31/2024	KRA	ABS	SHA	ISSUED FOR DESIGN
E	7/4/2024	KRA	ABS	SHA	RE-ISSUED FOR HAZOP
D	6/4/2024	KRA	ABS	SHA	ISSUED FOR HAZOP
C	3/8/2024	SYK	ABS	SHA	ISSUED FOR APPROVAL
B	2/18/2024	SYK	ABS	MAS	RE-ISSUED FOR REVIEW
A	1/26/2024	SYK	ABS	MEB	ISSUED FOR REVIEW
REV.	DATE	DRN.	CHD.	APD.	DESCRIPTION

SCALE: N.T.S LOCATION: SAHIL PROJECT No. P16093



CONSULTANT / CONTRACTOR / VENDOR:
REJLERS TARGET

DRAWING No.

PROJECT: EPC OF SAHIL PHASE 3 DEVELOPMENT PROJECT

DRG. TITLE:
PIPING AND INSTRUMENT DIAGRAM
2ND STAGE SUCTION DRUM : V-3610-02
EXPORT GAS COMPRESSOR CDS : SAHIL

DRG. No.	16	01	08	1682	1	1/1
AREA	FAAREA	DOC CODE	SERIAL No.	REV.	SHT	OF